

HK 2516

Drawn cup needle roller bearing with open ends

Drawn cup needle roller bearings are typically used in applications where the housing bore cannot be used as a raceway for a needle roller and cage assembly, but where a very compact and economical bearing arrangement is required. Owing to their large number of rollers, the bearings have a high load carrying capacity and stiffness.

- High radial load carrying capacity
- High stiffness
- Very low cross-sectional height

Overview

Dimensions

Bore diameter of needle roller complement	25 mm
Outside diameter	32 mm
Width	16 mm

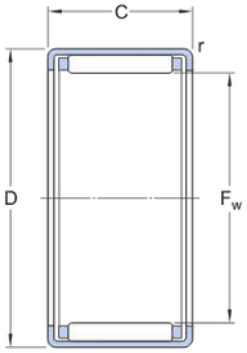
Performance

Basic dynamic load rating	15.1 kN
Basic static load rating	24 kN
Reference speed	9 500 r/min
Limiting speed	11 000 r/min

Properties

Bearing part	Bearing without inner ring
Number of rows	1
Outer ring type	Drawn cup with open ends
Aligning feature	Without
Cage	Sheet steel
Number of flanges, outer ring	2
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification



Dimensions

F_w	25	mm	Diameter under rollers
D	32	mm	Outside diameter
C	16	mm	Width
r	min. 0.8	mm	Chamfer dimension drawn cup (outer ring)

Calculation data

Basic dynamic load rating	C	15.1 kN
Basic static load rating	C_0	24 kN
Fatigue load limit	P_u	2.85 kN
Reference speed		9 500 r/min
Limiting speed		11 000 r/min

Mass

Mass bearing	0.025 kg

Associated products

Inner ring IR series	IR 20x25x17
Inner ring LR series	LR 20x25x16.5
Radial shaft seal with a low cross-sectional height, single lip	G 25x32x4

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